

# Jyota Snyder

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## Technical skills

### Programming & markup languages

*Proficient:* Python, SQL, JavaScript (Node.js, AngularJS, etc), CSS (including SASS & LESS), HTML, Bootstrap, R

*Some work experience:* Bash, Ruby, Perl, C#, F#, Scala, Java

### Cloud, web, & virtualization technologies

*Certification:* AWS Solutions Architect Associate (2019 - 2022)

*Proficient:* Amazon Web Services (EC2, ECS, RDS, S3, Glacier, VPCs/networking, etc), Docker, Terraform

*Some work experience:* Puppet, Vagrant, nginx, uwsgi

### Database & “big data” related technologies

*Proficient:* Postgres, Microsoft SQL Server

*Some work experience:* Spark, Phoenix/HBase, HDFS, Zeppelin, Ambari, MongoDB, SQLite, SSRS, SSIS

## Experience

### IHS Markit, Inc. - 2017 to present

*Sr. Software Engineer*

- On-boarded and trained software & QA engineers to understand and work on company development projects
- Led back-end and front-end development planning, implementation, and releases for website used as primary data reporting mechanism to customers
- Designed, documented, implemented, tested, and released improved infrastructure for backend services driving this website – reducing time for updates to ‘go-live’ to customers from up to over an hour down to several minutes
- DevOps activities such as writing terraform scripts to deploy services to various environments, config/admin of Linux servers, and management of AWS resources
- Development and debugging of front-end features for customer-facing web application (JavaScript, AngularJS, D3.js, Plotly.js, CSS)

### IHS Markit, Inc. (acquired RootMetrics) - 2015 to 2017

*Software engineer*

- Added features and made improvements to back-end web APIs that leveraged Cornice REST framework for Pyramid (a Python web framework)
- Developed and architected data warehouse objects and procedures optimized for data reporting purposes
- Worked closely between engineering and analytics departments to migrate key analytics reports into automated and reliable production-grade implementations

## **RootMetrics - 2013 to 2015**

*Data scientist*

- Created web-based data profiling tool in Python/Flask used to check for data quality issues
- Programmed complex, accurate ETL and analyses, compiled compelling presentations of analyses, and presented these results internally to colleagues with a wide-range of positions (CEO, engineering management & staff, data quality analysts, field support staff, account managers, etc)

## **GCG, Inc. - 2011 to 2013**

*Data analyst III*

- Wrote C# applications to automate tasks the team previously handled manually
- Optimized standard data ETL used by the business for years; previously took 2+ hours to process millions of records, developed a new approach that took only ~10 minutes to process the same amount of data
- Developed database structures, stored procedures, and SQL scripts to enable class action lawsuit payouts, mailings, and reporting

## **Education**

### **Central Connecticut State University - 2011 to 2014**

*Master of Science, Department of Mathematical Sciences - Data Mining*

### **Florida Atlantic University - 2008 to 2011**

*Bachelor of Social Work - Summa Cum Laude honors*

## **Freelance Projects**

### **Quarterlab - 2019**

- Created revenue and payments dashboard, used by both Quarterlab internal account administrators and external clients